



SEQUENCE LISTING

<110> NIKOLICH, MIKELJON
HOOVER, DAVID

<120> IMMUNOGENIC COMPOSITIONS INCLUDING ROUGH PHENOTYPE BRUCELLA HOST STRAINS AND COMPLEMENTATION DNA FRAGMENTS

<130> ARMY 176

<140> 10/733,691

<141> 2003-12-11

<150> US 60/402,164

<151> 2002-12-12

150> US 60/533,016

<151> 2003-09-15

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<212> DNA

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<212> PRT

<213> Brucella melitensis

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Val	Thr	Lys	Asn	Ile	Val	Arg	Met	Leu	Leu
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Lys	Gly	Ser	Gln	Asn	Tyr	Gly	Glu	Gln	Cys
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Ile Asp Asn Gly Val Glu Val Arg Glu Ile		
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Ser Phe Lys Glu Val Pro Pro Glu Asp Val		
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Asn Asn Ala Asn Tyr Phe Gln Gly Arg Asn		
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Ile Asp Leu Gln Ser Arg Thr Tyr Trp Leu		
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Ser Asp Leu Trp Leu Val Val Ser Tyr Ser		
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Val Glu Tyr Pro Ile Ala Pro Ile Arg Pro		
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Thr Leu Ile Phe Ala Thr Asp Phe Ile Gln		
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Arg Tyr Val Pro Asp Ile Ile Trp Pro Pro		
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Arg Pro Gly Glu Gly Asp Ala Glu Ala Leu		
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Ala Phe Leu Arg Gln Ser Asp Gly Val Leu		
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Ala Thr Thr Pro His Thr Arg Leu Asp Ala		
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Ile Ser Tyr Ala Gly Leu Pro Ala Ser Lys		
	185	190
Val Tyr Leu Ala Pro Met Glu Phe Asp Pro		
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Thr Phe Leu Asp Arg Tyr Arg Ser Val Ser		
	205	210
Lys Val Lys Glu Pro Tyr Phe Leu Trp Pro		
	215	220
Thr Asn Pro Asn Ala His Lys Asn His Ala		
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Lys Ala Phe Gln Ala Leu Asp Leu Tyr Tyr		
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Gly Lys Leu Lys Gly Lys Ile Lys Thr Lys		
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Ile Val Gly Val Ser Ser Val Arg Met Asp		
	255	260
Pro Ser His Arg Trp Gln Ala Lys Tyr Glu		
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Asn Lys Ala Tyr Val Lys Ser Val Arg Glu		
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Ile Val Ala Gly Leu Asp Asn Leu Lys Ser		
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Asn Val Glu Phe Ala Gly Glu Val Ala Asp		
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Lys Glu Tyr Ala Glu Leu Leu Ala Ser Ala		
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Cys Phe Leu Trp His Pro Thr Leu Ala Asp		
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Lys Gln Met Glu Glu Thr Pro Ile Asp Val		
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Leu His Ser Trp Glu Ala His Ala Ser Glu		
395	400	
Tyr Trp Asp Val Ile Val Arg Ala Ala Ala		
405	410	